

CLAIMS

1. A roof waterproofing system consisting of an organic resin protect by an aluminum-copolymer composite foil, characterized by the application, on exposed porous or non-porous surfaces (1) mud slab regularized or not, of concrete, wood, metals, etc., besides baseboards and parapets (2), of high adherence organic resin (4), with self-leveling, viscoelastic, thermoplastic and hydrophobic properties, covered by film strips (5) of aluminum laminated with thermoplastic copolymers, welded at its overlaps (7) by thermal process, fastened in the vertical surfaces of the structures by screws/plastic washers/ expansion shells groups (6), and whose flow of rain water is made by pipeline (3) in PVC or other equivalent material.

a composite film applied to said resin and including a central aluminum layer laminated between respective thermoplastic copolymer layers.

3. (New) The roofing system of Claim 2, wherein said resin layer allows sliding motion between said composite foil and said roof surface when said roof system is ready to use.

4. (New) The roofing system of Claim 2, wherein said roofing surface comprises concrete and said resin layer is applied directly to said concrete.

5. (New) The roofing system of Claim 2, wherein said roofing surface comprises a mud slab layer and said resin layer is applied directly to said mud slab layer.

6. (New) The roofing system of Claim 2, wherein said roofing surface includes a porous matrix having capillaries into which said resin layer penetrates.

7. (New) The roofing system of Claim 2, comprising a plurality of strips of said composite film applied over said resin layer and having overlapping edges welded together.

8. (New) The roofing system of Claim 2, wherein said roofing surface includes a parapet and further comprising screws fastening an edge of said composite film to said parapet.

9. (New) A roofing method, comprising the steps of:
a first step of applying over said roof surface an adhesive organic resin layer not containing asphalt;
a subsequent second step of applying over said resin layer a strip of a composite foil including a central aluminum layer laminated between respective thermoplastic copolymer layers.

10. (New) The roofing method of Claim 9, wherein said roofing surface includes a parapet and further comprising fastening an edge of said strip to said parapet with mechanical fasteners.

11. (New) The roofing method of Claim 10, wherein said resin layer is visco-elastic after said fastening step.

12. (New) The roofing method of Claim 9, wherein said second step applies over said resin layer a plurality of said strips having respective edges overlapping.

13. (New) The roofing method of Claim 12, further comprises heating at least one of said overlapping edges to thereby attach adjacent ones of said strips.

14. (New) The roofing method of Claim 13, wherein said heating step includes applying heated air.

15. (New) The roofing method of Claim 13, wherein said heating step melts said thermoplastic copolymer layers of said adjacent ones of said strips, thereby welding them together.

16. (New) The roofing method of Claim 9, wherein said resin layer is visco-elastic after said method has been completed.